

## ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned: **Paul E. Nisson, Joel Jesse and Wu-bo Li** the undersigned hereby sell(s) and assign(s) to **Life Technologies, Inc.** (the Assignee) his/her entire right, title and interest

check applicable box(es) ☒: for the United States of America (as defined in 35 U.S.C. § 100),  
☒: and throughout the world,

in the invention(s) known as **Method for Isolating and Recovering Target DNA or RNA Molecules having a Desired Nucleotide Sequence** for which application(s) for patent in the United States of America has (have) been executed by the undersigned on 5/21, 5/29 + 6/5/98 (also known as United States Application No. **to be assigned**, filed **herewith**), in any and all applications thereon, in any and all Letters Patent(s) therefor, and in any and all reissues, extensions, renewals, reexaminations of such applications or Letters Patent(s) and divisional and continuation applications thereof, to the full end of the term or terms for which such Letters Patent(s) issue, including all claims, if any, that may have arisen for infringement prior to the date of this assignment, such entire right, title and interest to be held and enjoyed by the above-named Assignee to the same extent as they would have been held and enjoyed by the undersigned had this assignment and sale not been made.

The undersigned agree(s) to execute all papers necessary in connection with the application(s) and any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference that may be declared concerning the application(s) or any continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

The undersigned hereby represents that the undersigned has full right to convey the entire interest herein assigned, and that the undersigned has not executed, and will not execute, any agreement in conflict therewith.

The undersigned hereby grant(s)

Jeffrey I. Auerbach, Reg. No. 32,680  
 Melvin L. Barnes, Jr. Reg. No. 38,375  
 Michael J. Bell, Reg. No. 39,604  
 Mark R. Buscher, Reg. No. 35,006  
 Celine T. Callahan, Reg. No. 34,301  
 Cono A. Carrano, Reg. No. 39,623  
 Joseph V. Colaianni, Jr., Reg. No. 39,948  
 James F. Davis, Reg. No. 21,072  
 Thomas M. Dunham, Reg. No. 39,965  
 Joel M. Freed, Reg. No. 25,101  
 Alan M. Grimaldi, Reg. No. 26,599  
 Alexander J. Hadjis, Reg. No. 36,540  
 Albert P. Halluin, Reg. No. 25,227  
 Michael N. Haynes, Reg. No. 40,014

Leslie L. Jacobs, Jr., Reg. No. 40,659  
 Richard H. Kjeldgaard, Reg. No. 30,186  
 Joseph P. Lavelle, Reg. No. 31,036  
 David R. Marsh, Reg. No. 41,408  
 Kevin W. McCabe, Reg. No. 41,182  
 Joseph A. Micallef, Reg. No. 39,772  
 Karen L. Nicastro, Reg. No. 35,968  
 Andrew Piatnicia, Reg. No. 40,772  
 Andrea G. Reister, Reg. No. 36,253  
 Stephen J. Rosenman, Reg. No. 29,209  
 Timothy L. Scott, Reg. No. 37,931  
 Anthony W. Shaw, Reg. No. 30,104  
 J. David Smith, Reg. No. 39,839  
 Michael J. Songer, Reg. No. 39,841

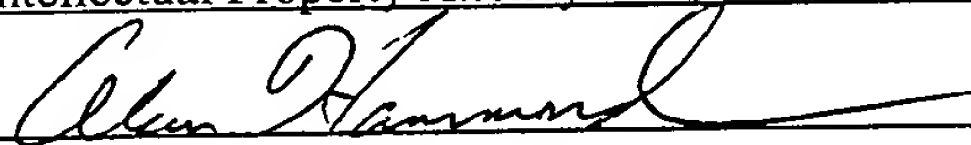
of HOWREY & SIMON, BOX NO. 34, 1299 PENNSYLVANIA Avenue, N.W., Washington, D.C. 20004-2402, power to insert in this Assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: 6/16/98

Name: Alan Hammond, Esq.

Title: Intellectual Property Attorney

Signature: 

04227.0026

## Certificate Under 37 C.F.R. § 3.73(b)

Applicant(s): Paul E. Nisson, Joel Jesse and Wu-bo LiApplication No: To Be Assigned Filed: HerewithFor: Method for Isolating and Recovering Target DNA or RNA Molecules having a Desired Nucleotide Sequence,

Life Technologies, Inc., a corporation,  
 (Name of Assignee) (Type of Assignee, e.g., corporation, partnership,  
 university, government agency, etc.)

states that it is the assignee of the entire right, title and interest in the patent application identified above by virtue of either:

A. ☐ An Assignment from the inventor(s) of the patent application identified above. The assignment was recorded in the Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

[or]

B. ☐ A chain of title from the inventor(s) of the patent application identified above to the current assignee as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_  
 The document was recorded in the Patent and Trademark Office at  
 Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

2. From: \_\_\_\_\_ To: \_\_\_\_\_  
 The document was recorded in the Patent and Trademark Office at  
 Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

3. From: \_\_\_\_\_ To: \_\_\_\_\_  
 The document was recorded in the Patent and Trademark Office at  
 Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☒ Copies of assignments or other documents in the chain of title are attached.

To the best of the undersigned's knowledge and belief, title of the patent application identified above is in the assignee identified above.

The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.

IN WITNESS WHEREOF, executed by the undersigned on the date(s) opposite their name(s).

Date: 1-5-98 Signature of Inventor: Paul Scrim

Date: 5/28/98 Signature of Inventor: Paul Scrim

Date: 5/29/98 Signature of Inventor: W. B. L. i

04227.0026

## Combined Declaration and Power of Attorney for Patent Application

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter that is claimed and for which a patent is sought on the invention entitled **Method for Isolating and Recovering Target DNA or RNA Molecules having a Desired Nucleotide Sequence**, the specification of which is attached hereto unless the following box is checked:

☐ was filed on \_\_\_\_\_;  
as United States Application Number \_\_\_\_\_ or PCT International Application Number \_\_\_\_\_; and  
was amended on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application, which designated at least one country other than the United States listed below, and have also identified below any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Priority Claimed

☐ Yes ☐ No

\_\_\_\_\_  
(Application No.)

\_\_\_\_\_  
(Country)

\_\_\_\_\_  
(Day/Month/Year Filed)

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

60/050,729

June 25, 1997

\_\_\_\_\_  
(Application No.)

\_\_\_\_\_  
(Filing Date)

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or under § 365(c) of any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56 that became available between the filing date of the prior application and the national or PCT international filing date of this application.

\_\_\_\_\_  
(Application No.)

\_\_\_\_\_  
(Filing Date)

\_\_\_\_\_  
(Status - patented, pending, abandoned)

\_\_\_\_\_  
(Application No.)

\_\_\_\_\_  
(Filing Date)

\_\_\_\_\_  
(Status - patented, pending, abandoned)

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Jeffrey I. Auerbach, Reg. No. 32,680  
Melvin L. Barnes, Jr. Reg. No. 38,375  
Michael J. Bell, Reg. No. 39,604  
Mark R. Buscher, Reg. No. 35,006  
Celine T. Callahan, Reg. No. 34,301  
Cono A. Carrano, Reg. No. 39,623  
Joseph V. Colaiani, Jr., Reg. No. 39,948  
James F. Davis, Reg. No. 21,072  
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Joel M. Freed, Reg. No. 25,101  
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David R. Marsh, Reg. No. 41,408  
Kevin W. McCabe, Reg. No. 41,182  
Joseph A. Micallef, Reg. No. 39,772  
Karen L. Nicastro, Reg. No. 35,968  
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Timothy L. Scott, Reg. No. 37,931  
Anthony W. Shaw, Reg. No. 30,104  
J. David Smith, Reg. No. 39,839  
Michael J. Songer, Reg. No. 39,841

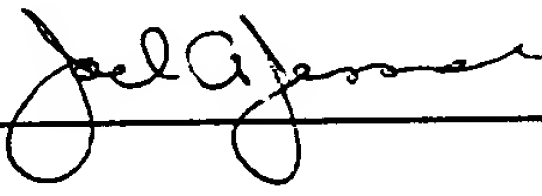
Send Correspondence to:


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Facsimile (202) 383-7195

Direct Telephone Calls to: Kevin W. McCabe (202) 383-6594

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor: Paul E. Nisson	
Inventor's signature	Date <u>6-5-98</u>
Residence Gaithersburg, Maryland	
Citizenship USA	
Post Office Address 9504 Appeals Place, Gaithersburg, MD 20879	

Full name of sole or second inventor: Joel Jesse	
Inventor's signature 	Date 5/28/98
Residence Mt. Airy, Maryland	
Citizenship USA	
Post Office Address 4139 Old National Pike, Mt. Airy, MD 21771	

Full name of sole or second inventor: Wu-bo Li	
Inventor's signature 	Date 5/29/98
Residence North Potomac, Maryland	
Citizenship USA	
Post Office Address 11909 Riding Loop Terrace, No. Potomac, MD 20878	

(Supply similar information and signature for subsequent joint inventors, if any)